

Water Treatment Plant in Ningbo, China: Safe control of sedimentation and sand filters

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Customer information

The Ningbo Dongqien Lake Water Treatment Plant is located south-east of Shanghai in the province of Zhejiang.

The plant will be built and commissioned in 2 phases. The first phase has created a capacity of 300.000m³/day.

Phase 2 will increase the capacity to 500.000m³/day and is due to start operation in January 2009.

Task

- Actuate of existing butterfly valves
- For phase 1, the customer required controls for four outlet valves at the sedimentation tanks
- The customer has 12 sand filters where the process valves for air and water for the back-washing stage have to be actuated
- Festo will also provide equipment for phase 2
- Fully integrated into the Allen-Bradley PLCs using a DeviceNet bus system

Solution

- In total 16 stainless steel control cabinets have been supplied, containing typ 03 valve terminals with Allen Bradley FlexLogix units
- Festo supplied 24 actuators type DLP 80-400 for water inlet and 24 actuators type DLP 125-550 for water outlet at the sand filters
- The process valves for the back-washing stage as well as the actuators for water inlet and outlet at the sand filters are controlled from the control cabinet
- Ready-to-install solutions helped the customer with fast commissioning and convinced him to work with Festo for phase 2



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